

Name: _____

Date: _____

Algebra 1A Pd _____

Weekend Word Problem #4: Antoine's Caterpillars

The Situation: Antoine has a collection of caterpillars. He currently has 9 caterpillars and will add 5 caterpillars to his collection each week. **Let w = # of weeks.**

1. Write an expression for the number of caterpillars Antoine will have after " w " weeks. (Hint: look at WWP #3).

2. Use substitution to find out the total number of caterpillars Antoine will have after 4 weeks.

3. Use substitution to find out the total number of caterpillars Antoine will have after 7 weeks.

4. Define variables to write an equation. (you already have one!)

5. Antoine wants to know how many weeks he will have to wait before he has a total of one hundred fifty-nine caterpillars. Write an EQUATION to help Antoine. (Hint: your expression from #1 should equal 159.)

6. Compare and contrast your thought process for this word problem versus the one from last weekend. You MUST use all of the lines.

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